

Title (en)
Ultrasonic probe

Title (de)
Ultraschallsonde

Title (fr)
Sonde à ultrasons

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Application
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- JP 2000090880 A 20000329

Abstract (en)
[origin: EP1132149A2] The object of the present invention is to provide an ultrasonic probe of high performance and high quality. Disclosed is an ultrasonic probe comprising a high molecular material (11) having a conductive layer (10) and is disposed between a piezoelectric element (1) and an acoustic matching layer (7), wherein the high molecular material has an acoustic impedance substantially equal to that of the acoustic matching layer (7). The ultrasonic probe configured as above can be formed into a slim shape which is easy to operate without degrading the performance thereof such as sensitivity, frequency characteristic or the like. The ultrasonic probe is structured so as not to cause electrical problem due to breaking of wire even if the piezoelectric element is cracked by a mechanical impact or the like, and thus a high quality ultrasonic probe can be provided, and the noise can be reduced. <IMAGE>

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Citation (search report)

- [I] US 5711058 A 19980127 - FREY GREGG W [US]
- [A] US 4756808 A 19880712 - UTSUMI KAZUAKI [JP], et al

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